KUI'CHITSKIY, L.A.

3/056/63/044/004/007/044 B102/B186

AUTHORS:

Kul'chitskiy, L. A., Volkov, Yu. M.

TITLE:

Photodisintegration of Li7

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,

no. 4, 1963, 1153 - 1159

TEXT: The energy spectra and angular distributions of the protons and tritons emitted on photodisintegration of Li7 were measured by a method similar to that described in ZhETF, 42, 108, 1962. A Li target of

8 mg/cm2 was arranged in a vacuum chamber with two equal telescope counters; argon-filled proportional counters served as input counters for the telescopes. The energy resolution of the telescopes was improved by using fast integral discriminators. The proton energy spectrum E max - 30 Mev was ob-

tained by superposing the spectra obtained for the angles 54, 72, 90, 108, and 1260; peaks were observed at 4.60, 5.20, 5.85, 6.75, 7.75, 8.60, and 10.20 Mev. When superposing the spectra taken at E = 20, 25, and 30 Kev

(90°), the low-energy peaks appear somewhat shifted. The triton energy

Photodisintegration of Li7

S/056/63/044/004/007/044 B102/B166

spectrum (E_{ymax} = 30 Mev) has peaks at 14.1, 16.2, 18.0, 19.6, 21.5, 23.5, and 25.3 Mev. The angular distributions of both photoprotons and phototritons can be approximated by a+bsin² \(\frac{1}{2} \) (1 + \frac{1}{2} \cos \frac{1}{2} \); a/b and y are determined by the method of the least squares. The differential p, d, and t production cross sections are given in Table 3 (cm²/steradian·Mev·Q). As calculations based on the theory of gamma resonance absorption show, the reac-

tion Li⁷(y,t)He⁴ occurs most probably as a result of compound nucleus formation. The peaks corresponding to the 19.6 and 25.3 Mev excited levels were observed for the first time. The majority of the protons observed correspond to transitions to excited states of the He⁶ nucleus. There are 5 figures and 5 tables.

ASSOCIATION:

Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR)

CANADA MARIA MERINA MARIA MARI

SUBMITTED:

November 10, 1962

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	O	V -	4 - Propinski propinski se se objekt		104/ 8 100				
				Table 3					
			10 rd 4 Ω	d a d E U · cmapa	cat id-MeV-Q				
			E _{γ max} == = 20 MeV	By max == 25 MeV	E _{Y max} = - 30 MeV				
		p d	2.7±0.2 0.11±0.03 1.36±0.24	8,6±0,4 0,40±0,12 1,36±0,12	12,7±1,2 0,60±0,3 1,56±0,2				
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ACCESSION NR: AP4031183

.. S/0056/64/046/004/1488/1490

AUTHOR: Danisov, V. P.; Kulikov, A. V.; Kulichitskiy, L. A.

TITIE: Cross section of the reaction C-13 (Gamma, p) B-12

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1488-1490

TOPIC TAGS: gamma proton reaction, integral cross section, differential cross section, emission spectrum, carbon, boron

ABSTRACT: The yield of the reaction $C^{13}(\gamma, p)B^{12}$ was determined from the γ activity of the residual nucleus B^{12} ; this activity was registered in the intervals between pulses of the synchrotron γ -quantum beam. The target and detector used were stilbene crystals. The integral and differential cross sections were obtained by processing the yield curve by the Penfold and Leiss method. The differential cross section curve differs greatly from the similar curve obtained by B. C. Cook (Phys. Rev. v. 106, 300, 1957). However, a great similarity exists between the present result and the differential cross section for the reaction $C^{12}(\gamma, p)B^{11}$, obtained from the spectrum of the protons from the disintegration of C¹² by Dodge and Barber (Phys. Rev. v. 127, 1746, 1982). The peaks of the (γ, p) reaction on C^{13} occur at approximately the same energies as those of the C^{12} , but

ACCESSION NR: AP4031183

with a shift of approximately 1 MeV towards the higher energies. A comparison of the results with the theoretical calculations shows that the values of the energies of the main transitions are in good agreement with the peak energies obtained in the present experiment. Orig. art. has: 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute Academy of Sciences SSSR)

SUBMITTED: 230ct63

DATE ACQ: 07May64

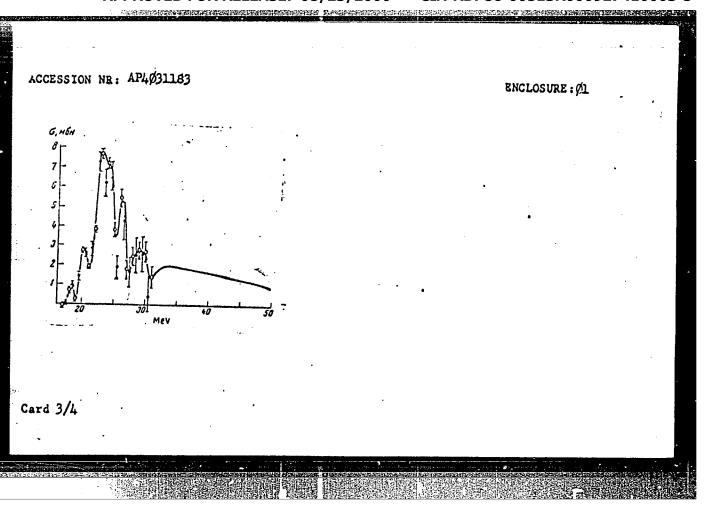
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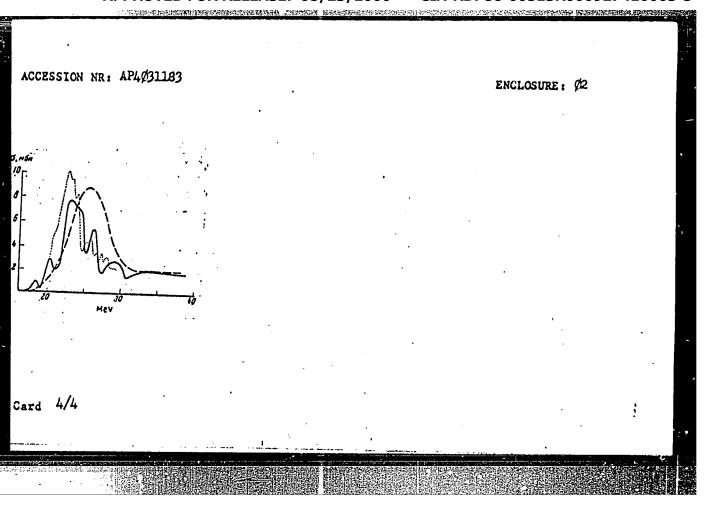
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OTHER: 003

Card 2/4



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410003-5"



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410003-5"

DENISOV, V.P.; KUL CHITSKIY, L.A.

Study on the 016 (7, p) 1115 reaction. IAd. fiz. 2 no.1:70-81 J1 165. (MIRA 18:8)

1. Fiziko-tekhnicheskiy institut im. A.F. Ioffe AN SSER.

L 4378-66 EWT(m)/EWA(h) ACCESSION NR: AP5020256 UR/0367/65/002/001/0070/0081 Kulichitskiy, L. A. AUTHORS: Denisov, V. P.; Investigation of the reaction $0^{16}(\gamma,p)N^{15}$ TITLE: Yadernaya fizika, v. 2, no. 1, 1965, 70-81 SOURCE: TOPIC TAGS: oxygen, bremsstrahlung, proton interaction, gamma interaction, excited state ABSTRACT: Photoproton spectra of 0¹⁶ were measured in the protonenergy region 3.4 -- 12 MeV by means of telescopes consisting of proportional counters and scintillation counters. The measurements were made for 14 values of the maximum bremsstrahlung energy from 213 to 43.7 MeV. Excitation functions for the reaction $0^{16}(\gamma,p)N^{15}$ for the transitions to the ground state, to the doublet positive-parity state, and to the third-excited state of N^{15} were obtained from an analysis of the proton yield curves in various regions of the spectrum, using the bremsstrahlung-spectrum isochromats. The relative Card

L 4378-66 ACCESSION NR: AP5020256 intensities of the transition to these states are 45, 25, and 30 per cent for the transitions from the 22.4-MeV dipole state of 0^{16} , and 42, 28, and 30 per cent from the 24.4 MeV state. The total integrated (γ,p) cross section is 83 \pm 8 mb-MeV in the range 17 -- 40 MeV. The cross sections for the various excited states of the O nucleus were determined and their positions found to be in good agreement with energies obtained in other experiments. The results are compared with theoretical calculations and with other experimental data on $0^{16}(\gamma,p)$ reactions. A detailed description of the measurement technique can be found in another paper by the authors, with Yu. M. Volkov (PTE no. 3, 67, 1965). The authors thank the synchrotron crew, headed by Chief Engineer V. P. Fomiliehko, for making possible the success of this work. Orig. art. has: 4 figures and 4 tables. ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe, AN SSSR (Physicotechnical Institut AN SSSR) SUB CODE: NP SUBMITTED: 06Nov64 OTHER: 018 004 NR REF SOV: 2/2/11/14

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CIA-RDP86-00513R000927410003-5

EWT (m) / EWP (t) / ETI IJP (c) SOURCE CODE: UN/0020/66/169/006/1307/1310 ACC NRI ANG030654 AUTHOR: Komar, A. P. (Academician UkrSSR); Denicov, V. P.; Kul'chitokiy, L. A. ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences SSSR (Fizikotekhnicheskiy institut Akademii nauk SSSR) TITLE: Investigation of the photodisintegration of the nucleus, 018 SOURCE: AN SSSR. Doklady, v. 169, no. 6, 1966, 1307-1310 TOPIC TAGS: oxygen, nitrogen, integral cross section, transition probability, photonuclear reaction, gamma ray absorption, resonance absorption ABSTRACT: The authors report results of investigations of the transition probability and different states of the final nucleus N15 obtained by photodisintegration of O16 and the integral cross section for total absorption of γ quanta above the region of giant resonance (up to 55 Mev). The research consisted of measuring and analyzing the energy spectra of the photoprotons of the reaction (γ, p) in the energy interval Eymax from 21.3 to 55.0 Mev. The protons were registered at 90° relative to the direction of the bremsstrahlung beam, by a telescope consisting of a proportional counter (front) and a scintillation counter with NaI(Tl) crystal (back). Details of the measurement methods are given elsewhere (Pribory i tekhn. eksp. no 3, 67, 1965). The results show that the intensity of the transitions to the levels of positive parity (5.28 and 5.30 Mev) of the N¹⁵ (produced in the reaction $0^{16}(\gamma, p)N^{15}$) are commensurate with the intensities of the transitions to levels of negative parity. UDC: 539.172.3 Card 1/2

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Dehydration of the crystal hydrate applied in determining the gypsum content of soils. Pochvovedenie no.10:101-107 0 '56. 1. Nauchno-issledovatel skiy sektor Gidroporyekta. (Soils--Analysis) (Gypsum)

KUL'CHITSKIY, L.I.

Determining the absorption capacity of clays by adsorption of the methylene blue organic dye. Kora vyvetr. no. 3:365(MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii inzhenernoy geologii.
(Clay--Analysis)

KUL CHITSKIY, L.I.

· POPULAR AND SERVICE PROPERTY OF THE PROPERTY

Separation of the finely dispersed fraction from clay for mineralogical analysis. Razved. i okh. nedr 26 no.9:50-52 S 160.

(MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel*ckiy institut gidrogeologii i inzhenernoy geologii.

(Clay—Analysis)

KUL'CHITSKTY, L. I., Moscow, and RAYTBURD, Ts. M., Moscow State University

TO STATE OF THE PROPERTY OF TH

"New experimental data from the study of clay mineral microaggregates" (Section VII)

report to be submitted for the Second Conference on Clay Mineralogy and Petrography, Prague, Czech., 10-17 May 1961.

KUL'CHITSKIY, L.I.

THE PROPERTY OF THE PROPERTY O

Spectrophotometric study of the adsorption of methylene blue highly dispersed aluminosilicates. Koll. zhur. 23 no.1: 76-85 Ja-F '61. (MIRA 17:2)

1. Nauchno-issledovateľskiy institut gidrogeologii i inzhenernoy geologii, laboratoriya fizicheskikh metodov issledovaniya.

RAYTBURD, TS.M.; KUL'CHITSKIY, L.I.

THE PROPERTY AND PROPERTY ASSESSED TO THE RESIDENCE OF THE PROPERTY OF THE PRO

New experimental data on the study of the microaggregates of clay minerals. Rent. min. syr. no.2:75-80 '62.

(MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut gidrogeologii i inzhenernoy geologii Ministerstva geologii i okhrany nedr SSSR.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410003-5"

KUL'CHITSKIY, L. I.

Analyzing errors in the determination of the specific gra ity of saline soils. Vop. gldrogeol. i inzh. geol. no.20:164-178 '62. (MIRA 16:4)

(Saline and alkali soils-Density)

national alternations are a large that the seminater production in the semination of the semination of

MILCHITSKIY, L. I.

"Studies on the crystal chemistry of the surface of clay minerals and the clay-water-ions system by spectrophotometric analysis."

Report submitted for the International Clay Conference, Stockholm, Sweden, 12-16 Aug 63.

KUL'CHITSKIY, L.I.

Determining the volumetric clay cation; with their preliminary displacement by methylene blue in an aqueous solution. Biul. nauch.-tekh.inform VIMS no.1:84-86 163.

(MIRA 18:2)

1. Vsesoyuznyy na hno-issledovatol skiy institut gidrogeologii i inzhenernoy geologii.

KUIPCHITEKIY, L.:.

Studying the crystal enemistry of highly disperses abuninum silicates. Trudy VEEGINGEO no.91253.265 164. (MIRA 17-10)

KOROLEV, V.A.; KUL'CHITSKIY, L.S.; ZHERNOVOY, A.I.

Angular & - Y correlation of ThC" (T1208). Izv.AN SSSR.Ser.fiz. 20 no:12:1451-1454 D '56. (MIRA 1033)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR. (Thorium--Isotopes)

36430. Fosle-operatsionnoye techenive ostrono appenditaita v zapolver'ye. Sov. vracheb. Shornik, vpp. 16, 1949, S. 2h-26

KUL'CHITSKIY, P. A., POKUS, A. G. I MAKSIMOV, A. A.

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

ARTEM'YEV, Yu.N., kand. tekhn. nauk; CAL'PERIN, A.S., kend.
tekhn. nauk; TEL'POV, A.S., inzh.; DYALLUSHKO, V.P., inzh.;
SELIVANOV, A.I., red.; TEPTELEV, P.M., spets.red.;
KUL'CHITSKIY, R.N., spets. red.; ARKHANGEL'SKIY, B.Ye.,
spets. red.; GINDINA, I.I., red.

[Specifications and instructions on checking for wear of the parts and couplings of T-40 tractors in repair] Tekhnicheskie usloviia i ukazaniia po defektovke detalei i sopriazhenii pri remonte traktorov T-40. Moskva, Biuro tekhn. informatsii GOSNITI, 1964. 169 p. (MIRA 18:5)

l. Perovo. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut remonta i ekspluatatsii
mashinno-traktornogo parka. 2. Laboratoriya issledovaniya
iznosov traktorov Gosudarstvennogo vsesoyuznogo nauchnoissledovatel'skogo tekhnologicheskogo instituta remonta i
ekspluatatsii mashinno-traktornogo parka, Perovo (for Artem'yev,
Gal'perin, Dyadyushko).3. Vladimirskiy traktornyy zavod (for
Teptelev, Kul'chitskiy). 4. Lipetskiy traktornyy zavod (for
Arkhangel'skiy).

KUL CHITSKIY, S. I.

Leather

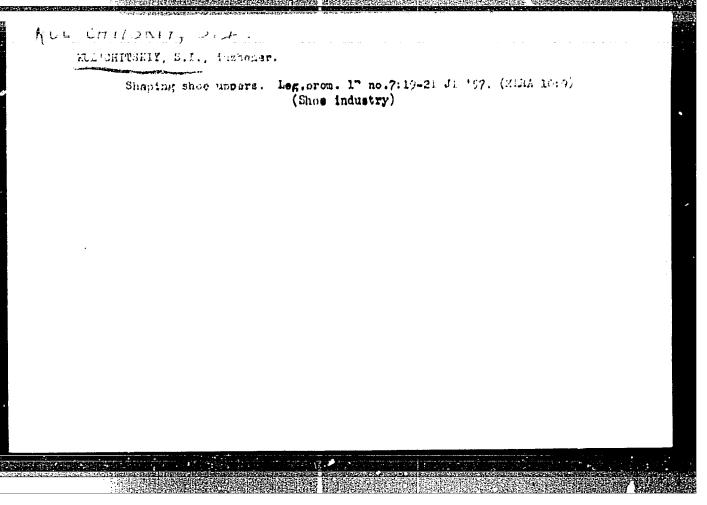
Measuring the weight and surface of stiff leather., Leg. prom. no. 2, 1952.

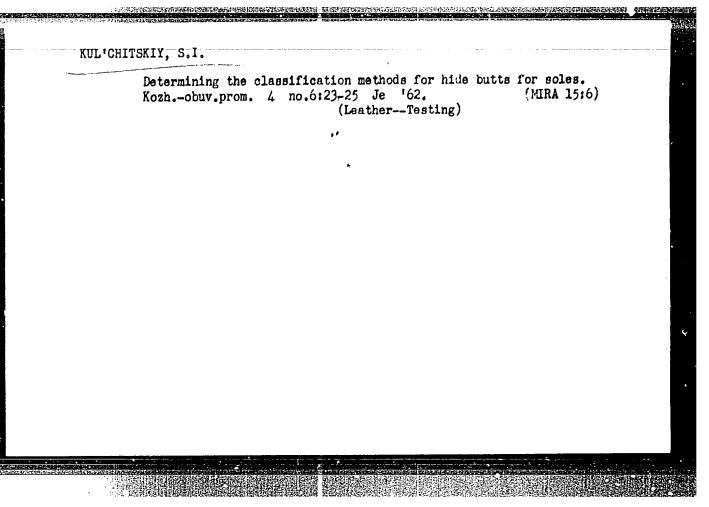
9. Monthly List of Russian Accessions, Library of Congress, March, 1952 1995, Uncl.

KUL CHITSKIY, S.I.

Double-side sharpening for knives used in cutting tough leathers. Leg.prem.15 [i.e.16] no.3:36-40 Mr *56. (MLRA 9:7)

1.Glavnyy inzhener Minskoy obuvney fabriki imeni Telimana. (Leather industry)





PLATUNOV, K.M. [deceased]; KUL'CHITSKIY, S.I.

Waste of material caused by the deformation of the cutting knives. Kozh.-obuv.prom. 4 no.9:29-32 S '62. (MIRA 15:9) (Shoe machinery)

THE PROPERTY OF THE PROPERTY O

KULICHITSKIY, S. I., inzh.; AFANAS YEV, A. A., kand. tekhn. nauk, dotsen t

Classification of the wastes in cutting and some problems of the utilization of materials for the manufacture of footwear. Izv. vys. ucheb. zav.; tekh. leg. prom. no.4:87-94 '62. (MIRA 15:10)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii obuvnogo proizvodstva.

(Shoe manufacture)

KUL'CHITSKIY, S.I., inzh.

Method for evaluating efficiency in the utilization of sole leather. Izv. vys. ucheb. zav.; tekh. leg. prom. no.2:67-74 163. (MIRA 16:10)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii obuvnogo proizvodstva.

KUL'CHITSKIY, S.V. [Kul'chyts'kyi, S.V.], student istoricheskogo fakul'teta; KOVBASYUK, S.M., nauchnyy rukovoditel', dots.

Construction of the Southern Main Line, 1864. Pratsi Od.un. Zbir.stud.rob. 149 no.5:29-37 '59. (MIRA 13:4)

1. Odesskiy gosudarstvennyy universitet. (Railroads)

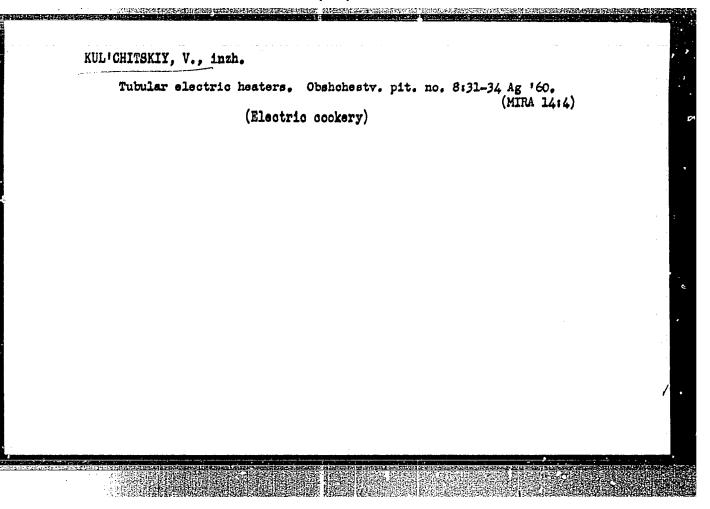
KUL'CHITSKIY, U. S.

sprovochnik - karalog torgovogo i tekhnologicheskogo oborudovaniya. izd 2-e, (Dop.) M., Gostorgizdat, 1954. 140 s. s ill. 26 sm. 8,000 ekz. 10r. 80k. Na obl. aut. ne ukazany (54-54942)
1-e izd. Vyshlo pod magl: Sprovochnik-katalog obsrudovaniya i inventarya predpriyariy torgouli i obshchesrvennogo piraniya. 658.8.0025 + 640.24.0025 (085)

SO: Knizhnaya Letopis, Vol 1, 1955

All-purpose swivel head on a support. Sov.foto 13 no.10:62-63
O'58. (MIRA 11:11)

(Motion-picture cameras)



L 15707-63

EPR/EWP(j)/EPF(c)/EWT(m)/BDS ASD/ESD-3 Ps-4/Fc-4/Pr-4

RM/WW

ACCESSION WR: AP3005858

3/0051/63/015/002/0286/0287

AUTHOR: Voloshin, V. A.; Goryushko, A. G.; Kul'chitakin. V. A.

73

TITIE: Spectroscopic investigation of poly(methyl methacrylate) ectivated by emopium benzoylacetomate

SOURCE: Optika i spektroskopiya, v. 15, no. 2, 1963, 286-287

TOPIC TAGS: rare earth chelate, rare earth, chelate, europium benzoylacetonate, polymer, poly(methyl methecrylate), laser, laser material, absorption spectrum, emission spectrum, europium, benzoylacetone, complex

ABSTRACT: A study has been made of the spectroscopic properties of a rerecarth chelate in a polymer because rare-earth chelates in the crystalline state ere not likely to be used in laser systems owing to too high a concentration of both absorption end emission centers. Two percent of curopium 1-rhenyl-1,3-butanedione complex (I) activating poly(methyl methacrylate) and crystalline I were both used in the experiment. The main results are given in Fig. 1 of the Enclosure. The absorption spectrum at room temperature ($\lambda_{max} = 508 \text{ mm}$, $\epsilon = 1.6 \times 10^{\circ}$) is characterized by a wide region of singlet-singlet transition of I. In general, the emission spectra of I are identical in the crystalline

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L 15767-63

ACCESSION IN: AP3005858

state and in the polymer and are characterized by the following data: 1) Emission occurs only from the 5Do level except for the very weak, but sherp, 5336-A line which appears in crystalline I at 100K and a 60-min exposure and may be due to a component of the $5D_1 \longrightarrow 7F_1$ transition. 2) The $5D_0 \longrightarrow 7F_0$ transiti w is very strong, nearly identical in intensity to the 500 -- TF1 transition. This indicates the low symmetry of the field in which the europium remaintions also indicates a low degree of symmetry. 4) The presence of transitions for which AJ exceeds 2 indicates that the europium ion is not at the center of symmetry. 5) The most intense lines occur in the 50, \longrightarrow 70, cransition. 6) Only four of the seven components of the 50 \longrightarrow 75, transition were observed, which was apparently due to a loss of film sensitivity. These data prove that both the strength and the symmetry of the field in which the europium ion is located are identical in the crystalline state and in the polymer. However, there are certain differences in the spectra of the two samples: 1) In the polymer the half-width of lines is 2 to 3 times as great (10-30 Å versus 3-10 Å). 2) The most intense component (5879 Å) of the 500 --> 7F. transition in the crystal is the least intense in the polymer. 3) A number of weak lines, 6155, 6218, 6299, and 6328, can evidently be attributed to the superposition of vibration frequency on electron transitions. Orig. art. hes: 1 figure.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410003-5"

L 10154-63

EPF(c)/ENT(m)/BDS--ASD--Pr-4--RM/HAY/WW

ACCESSION NR: AP3000322

s/0048/63/027/005/0690/0692

AUTHOR: Dobrokhotova, V. K.; Kul'chitskiy, V. A.; Naboykin, Yu. V.

1

TITLE: Spectra of frozen solutions of two impurities at 77°K [Report, Eleventh Conference on Luminescence held at Minsk 10-15 Sept. 1962]

SOURCE: Izvestiya AN SSSR. Seriya fizicheskaya, v. 27, no. 5, 1963, 690-692

TOPIC TAGS: luminescence, energy migration, spectrum shifters, dianthryl ethylene, liquid scintillators

ABSTRACT: The work was devoted to investigation of the luminescence spectra of frozen solutions containing two impurities between which resonance migration of energy may occur. The basic method of investigating the luminescence of organic molecules in frozen solutions is due to E. V. Shpol'skiy and his co-workers (Uspekhi fiz. nauk, 65, 51, 1959; Ibid., 71, 215, 1960) and allows of observing fine structure in the luminescence spectra of organic molecules. In the present experiments one of the impurities was the inert solvent hexane (instead of the usual toluene); the other was di-(9-anthryl)-1,2-ethylene (DAE). The excitation

Card 1/2

L 10154-63 ACCESSION NR: AP3000322

energy donor was naphthalene. The spectra were excited by filtered radiation from a PRK-2 mercury discharge tube and recorded photographically on an ISP-51 spectrograph. A vibrational analysis of the spectrum at 77°K is presented in a table; the shortest wavelength luminescence line was associated with the 0-0 transition. Next maintaining a constant concentration of DAE in the hexane solution there were prepared samples with 0.1, 1 and 10 moles naphthalene per mole of DAE. In the first the luminescence of only DAE was directly excited; in the second the naphthalene was also excited. In the 10 to 1 solution under excitation by the 313 millimicron line the DAE was excited primarily as a result of ennergy migration. It is inferred that in frozen solutions there are present two types of luminescence centers; these are formed by the same molecules but with different kinds of short-range order. Energy migration should be taken into account in using the Shpol'skiy technique. Orig. art. has I figure and I table.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Jun63

ENCL: 00

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NR REF SOV: 003

OTHER: 000

CIA-RDP86-00513R000927410003-5" APPROVED FOR RELEASE: 08/23/2000

KULOHITSKIY -V-A

ACCESSION NR: AP4017397

s/0185/64/009/002/0192/0195

AUTHOR: Voloshy*n, V. A.; Goryushko, G. G.; Kul'chy*ts'ky*y, V. O.

TITLE: Energy States of Benzoylacetate rere-earth complexes in a polymethylmethacrylate host.

SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 2, 1964, 192-195

TOPIC TAGS: rare-earth chealate, chealate luminescence, organic laser material, luminescence europium benzoylacetate, terbium benzoylacetate, europium chealate, terbium chealate, polymethylmethacrylate chealate host, copolymerization, rate-earth-organic complex

ABSTRACT: Brightly luminescing polycrystalline europium benzoylacetate (EBA) in a polymethylmethacrylate (PMM) host luminesces just as brightly as without the host. The basic characteristics of the luminescence spectrum are unchanged, and likewise for the absorption spectra. These were studied between 2800 and 3700 A. Luminescence spectra were taken at room temperature and at liquid nitrogen, hydrogen and helium temperatures with ISP-51 and STE-1 instruments.

Card 1/42

ACCESSION NR: AP4017397

Absorption spectra were taken at room temperature only on a SF-/ apparatus. Terbium benzoylacetate (TBA), in contrast to EBA, ceases luminescing in a PMM host, and its absorption spectrum changes sharply. The comparison is shown in Figures 1 and 2 of Enclosure Ol. The conclusion is that EBA dissolves in PMM, while TBA copolymerizes. "The authors, in conclusion, consider it their pleasant duty to thank their colleagues at the Institute of Physics of the Ukrainian Academy of Sciences, D. F. Sheka and G. V. Kly*musheviy for their assistance and helpful discussions." Orig. art. has 2 figures

ASSOCIATION: Fizy*kotekhnichny*y insty-tut, AN URSR, Kharkov (Physico-Technical Institute, AN URSR)

SUEMITTED: 22Jul63

DATE ACQ: 19Mar64

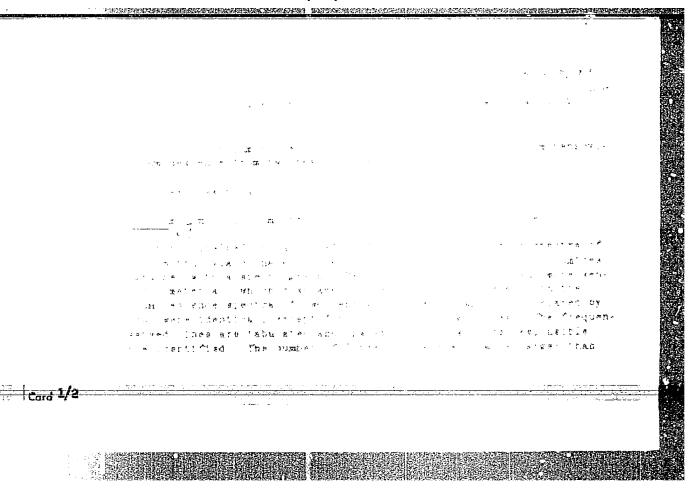
ENCL: 02

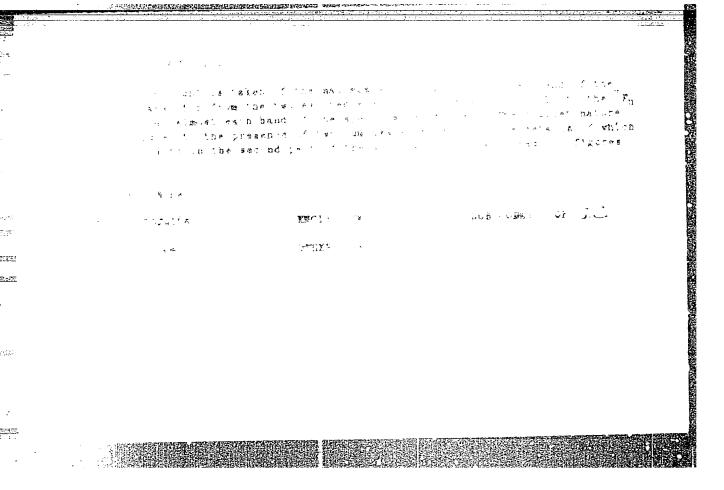
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NO REF SOV: 001

OTHER: 002

Card 2/4 7





L 010h3-67 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6019543

(A)

SOURCE CODE: UR/0190/66/008/006/1080/1084

В

AUTHOR: Korshak, V. V.; Vinogradova, S. V.; Kul'chitskiy, V. I.

ORG: Institute of Organoelemental Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR); Moscow Insticute of Chemical Technology im. D. I. Hendeleev (Moskovskiy khimiko-tekhnologicheskiy Institut)

TITLE: Copolymers of the unsaturated polyarylates containing allyl side chains with vinyl- and allyl-type monomers

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 6, 1966, 1080-1084

TOPIC TAGS: copolymer, solid mechanical property, polyaryl plastic, synthetic material, polymer structure

ABSTRACT: Copolymerization of polyarylates based on isophthalic acid and containing allyl side chains with diallylphthalate, diallylterephthalate, diallylisophthalate, 2-allylphenylmethacrylate, allylmethacrylate, methylmethacrylate, fethylglycol dimethacrylate, bis-ethyleneglicolphthate methacrylate, and styrene was studied. The object of the work was to fill the gap in the pertinent literature. The structures of the copolymers were determined by IR-spectroscopy and elementary analysis. Copolymerization was carried out either in sealed ampoules or in open dishes, using either benzoyl peroxides or a mixture of the copolymerization was carried out either in sealed ampoules or in open dishes, using either benzoyl peroxides or a mixture of the copolymerization was carried out either in sealed ampoules or in open dishes, using either benzoyl peroxides or a mixture of the copolymerization was carried out either in sealed ampoules or in open dishes, using either benzoyl peroxides or a mixture of the copolymerization was carried out either in sealed ampoules or in open dishes, using either benzoyl peroxides or a mixture of the copolymerization was carried out either in sealed ampoules or in open dishes, using either benzoyl peroxides or a mixture of the copolymerization was carried out either in sealed ampoules or in open dishes, using either benzoyl peroxides or a mixture of the copolymerization was carried out either the copolymerization was carried out either in sealed ampoules or in open dishes, using either benzoyl peroxides or a mixture of the copolymerization was carried out either the copolymerization was carried out eith

Card 1/2

UDC: 66.095.26+678.13+678.674+678.74

1. 0101,3-67 ACC NR: AP6019543

tiators. The weight ratio of polyarylate to monomer was 1:1 and 1:2. In the case of polymerization with allylic monomers, the reaction mixtures were heated for 3 hours consecutively at 60°, 80°, 120° and 140°C. In the case of polymerization with vinylic monomers, the reaction mixtures were heated for 3 hours consecutively at 60°, 80°, and 90°C. For copolymers prepared in sealed ampoules, the weight loss during aging at 300°C was determined. Specific impact viscosity, specific strength at static bending, and Brinell hardness for copolymers prepared in open dishes in air were determined. Solubility in chloroform, diallylphthalate, methylmethacrylate, and 2-allylphenol were determined for all copolymers. Of all synthesized copolymers, those based on diallylphthalate and diallylisophthalate were found to have superior thermomechanical properties. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 07/ SUBM DATE: 04Jun65/ ORIG REF: 006

awm

Card 2/2

EdT(m)/EPF(c)/EVP(v)/EVP(j)/TRM/WW L 1809-66 RPL ACCESSION NR: AP5025026 UR/0286/65/000/016/0082/0082 678.673.7—13 677 521 🔏 Korshak, V. V.; Vinogradova, S. V.; Korchevey, AUTHOR: Kul'chitskiy. TITLE: Preparative method for copolymers of unsaturated allyl-substituted polyaryl esters. Clase 39, No. 173936 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 82 TOPIC TAGS: polyaryl ester, heat resistant polymer, cross linking ABSTRACT: An Author Certificate has been issued for a preparative method for copolymers of unsaturated allyl-substituted polyaryl esters. The method involves copolymerization of the appropriate polyaryl esters with cross-linking agents at elevated temperature in the presence of free radical initiators. To improve the heat and chemical resistance of the copolymers, the cross-linking agents used are tetrafunctional acrylic monomers, e.g., allyl methacrylate / 2-allylphenol methacrylate, or 4, 4'-isopropylidenediphenol methacrylate. The copolymers so prepared are suitable as binders, in glass-reinforced plastics. [SM] Card 1/2

ACCESSION NR: AP5025026 ASSOCIATION: none		.0	
SUBMITTED: 23Nov64			
NO REF SOV: 000	OTHER: 000	atd press:4111	

L 18415-66 EWT(m)/EWP(J)/T/ETC(m)-6 WW/RM

ACC NR: AP6003421 (A) SOURCE CODE: UR/0190/66/008/001/0109/0114

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Korchevey, M. G.; Kul'chitskiy, V. I.

ORG: Institute of Elementoorganic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR); Moscow Institute of Chemical Engineering im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut)

TITLE: Copolymers of allyl-substituted unsaturated polyarylates with vinyl and allyl monomers (81st Report in Series "On Heteroaliphatic Polyesters")

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 109-114

TOPIC TAGS: polyaryl plastic, copolymerization, thermal stability, tensile strength, methyl methacrylate

ABSTRACT: Allyl-substituted polyarylates (I) of different molecular weights and concentrations of allyl groups copolymerized with various vinyl and allyl monomers were investigated. The solubility, thermal stability, and tensile strength of the products were studied. Most suitable of the examined (I) were those derived from torephthalic chloroanhydride, phenolphthalein, diallyldian, and 2-allylphenol, the structure of which may be represented by the formula:

Card 1/2

VDC: 66.095.26+678.674



ACC NR: AP6003421

with ratio of X:Y = 1.19 or 4. Their synthesis was described in an earlier work by V. V. Korshak, S. V. Vinogradova, M. C. Korchevey, and L. I. Komarova (Vysokomolek. soyed., 7, 457, 1965). It was established that methyl methicrylate, allyl methacrylate, dimethacrylate of ethylene glycol, and 2-allylphenol methacrylate are satisfactory cross-linking agents for (I). The last two compounds yield products of very high thermal stability and tensile strength, even after treatment at 300C in the presence of air. They are also inert to solvents and to sulfuric acid. Orig. art. has: 5 tables, 1 figure, and 1 structure.

SUB CODE: 07/ SUBM DATE: 18Feb65/ ORIG REF: 006/ OTH REF: 001

Card 2/2 par

KUL'CHITSKIY, V.S.; ORLOV, G.N.; CHERNOIVANNIK, A.Ya.; ISHKOVA, A.K., redaktor; SUDAK, D.M., tekhnicheskiy redaktor

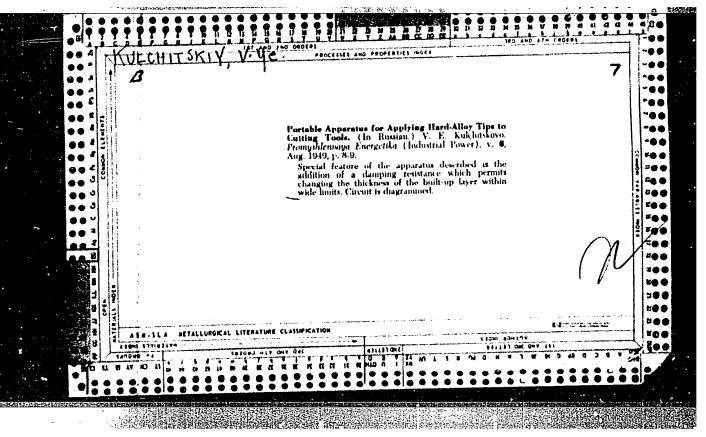
[A catalog of commercial and technical equipment] Spravochnik-katalog torgovogo i tekhnologicheskogo oborudovaniia. Izd. 2-e. Moskva, Gos. izd-vo torgovoi lit-ry, 1954. 139 p. (MERA 8:4)

(Food industry-Equipment and supplies)

(Retail trade-Equipment and supplies)

ARULOV, Leonii Gergeyevich; VGLONV, Georgiy Davydovich; KUL'CHITSKTI, Vadim Stepanovich

[Commercial technical equipment; a handbook] Torgovetekhnologicheskoe oborudovanio; spravochnik. Moskva, Ekonomika, 1964. 279 p. (MIRA 18:1)



KUL CHITSKIY, Ya.O.; CHERNYAK, N.I.

Some observations on dispirism within the limits of the Carpathian piedmont frontal fault. Geol.sbor.[Lvov] no.2/3:95-103 '56. (MLRA 10:3)

1. Ukrainskiy vseseyusnyy nanchno-issledovatel skiy geolgu-razvedochnyy neftyanoy institut L'vov.

(Carpathian Rountain region-Folds (Geology))

KULICHITSKIY, Ya.O.; KHLOPONIN, K.L.

Age of the Yamna sandstones (Western Carpathians). Geol. nefti 1 no.9:31-35 8 157. (MLRA 10:9)

1. Ukrainskiy Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut. (Carpathian Kountains--Sandstone)

KUL CHITSKIY, Ya.O.

Paleogene sediments in the Yasinya region. Geol. sbor. [Lvov] no.4:47-54 '57. (MIRA 13:2)

1. Ukrainskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo geologorazvedochnogo neftyanogo instituta, L'vov.
(Carpathian Mountain region--Geology, Stratigraphic)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410003-5"

THE TIME

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KUL CHITCKIY, Ya.O., PETRASHKUVICH, M.I., MRLOPOUIN, M.L. 20-2-47/62 The Stratigraphy of the Locene of the Klippen' Zone of the Last Carpathians.

(K stratigrafii eotsena utesovoy zony Vostochnykh Karpat - Russian) Dokrady Akad. Mauk SSSR, 1957, Vol 115, Kr 2, pp 365-367 (U.S.S.R.)

ABSTRACT

PERICLICAL

In spite of a great number of investigations, the conceptions of the geological structure of the 'Klippen' zone are by no means complete'. This concerns the study of the strati, caphy of Cretaceous and Paleogene sediments which envelop the denaded cliffs of the Jurassic and were given the name of "cliff cover" by Austro-Hungarian geologists already in the last century. In recent years the interest in the stratigraphic problems of these sediments considerably increased in connection with an increase in the number of geological papers on the discovery of useful rocks. The Carboniferous is here represented by not very thick terrigenous deposits of limestone. They often have no rhythm proper to flysh. Frequent interruption of sedimentation is characteristic. They consist of Alb-Senomanous rocks and Pukhov marl of the Senone period discordantly covering them. The latter only occur in the region of the Klippen zone. The Paleogenic is composed of a thick stratum of sandy-clayish flysh rocks. They discordantly lie on Cretaceous as well as on Trissic-Jurassic deposits or even directly on old crystalline recks (village of Kobyletskaya Polyana) of the Marmarosh massif. The lower part of the Paleogenic is represented by thick-layer, more seldom by massive sandstones. They were either included in the Upper-Cretaceous Paleocene or set apart as a "L'yutsch"

Card 1/3

The Stratigraphy of the Eocene of the Winen one of the East Carpathians. 20-2-47/62

suite. Its age was never faunally founded. According to Maslakova these sandstones lie on the Puhkov suite of the Kampan and Maastricht period. Everywhere above them are deposited colored rocks with foraminifera of from Lower to Upper Locene.According to the authors investigations, Paleocene deposits are absent in the region of the Utasov zone, due to an interruption in sedimentation. The Paleogene is here represented by Middle and Upper Bocene rocks (sandy-clayion flyan). The beginning of their formation coincides with a great transgression of the sea in the Middle Eocene epoch. The initial stadium is characterized by a 500-600 m thick stratum of sand which, according to its outward lithological appearance, was mistaken for the Liyutach write. The denudations are restricted to the southern part of the Mippen zone and can well be traced in a series of cross sectional areas. They consist of alternating deposits of thick-layer and massive sandstones with thin intermediate layers of aleurolithers or argillites. The clastic material is externely ill-norted. Quartz plays an important part. The cement on the whole is of a covering-swelling type predominantly of carbonate composition. In the gray and bluish-gray aleurolithes seldom occur semi-porous clayish units with charred plant fossils. In the lower part numerous bio-and mechanoglyphic as well as Paleodictyon signs are distinguishable. A great number of larger foraminifera was found. The Middle Eoccne age is confirmed by finds of a fauna of lar-

Card 2/3

The Stratigraphy of the Eocene of the "Klippen" Zone of the East Carpathians. 20-2-47/62

ge foraminifery on the river Luzhanda. The Eccene deposits of the "Klipper zone widely differ from those of the Magura and Krosno zones. According to lithology and theforaminifera complex they are very close to Middle and Upper Eccene rocks of the West Carpathians (Pienins and Tatra). The absence of the Danish stage ("dat") of the Paleocene and Lower Eocene in the Klippen zone of the Carpathian and the Tatra Mountains fully confirms the supposition that this portion was firm land for a long time. In the Luthetic epoch a great transgression began in the south which caused the formation of Middle and Upper Eccene deposits. (4 Slavic references).

ASSOCIATION: Ukrainskoye otdeleniye Vsesoyuznogo nauchno - issledovatel'skogo geologorazvedochnogo neftyanogo instituta, Feb. 6, 1957

PRESENTED By STRAKHOV N.M., Member of the Academy, April 16, 1956

AVAILABLE Library of Congress

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410003-5"

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KUL'CHITSKIY, Ya.O. [Kul'chyta'kyi, IA.O.]; ZHIIOVSKIY, N.I. [Zhylovs'kyi, M.I.]; DAHAGYAN, N.V. [Dabahian, N.V.]; MAKSIMOV, A.V. [Maksimov, O.V.]; KHIOPONIN, K.L.

Stratigraphy of Paleocene and Eccene eastern Carpathian Mountains[with summary in English]. Dop. AN URSR no.3:310-314 '58. (MIRA 11:5)

I. Ukrains'kiy viddil Vsesoyuznogo naukovo-doslidnogo geologorozviduval'nogo naftovogo institutu. Predstavleno akademikom AN USSR O.S. Vyalovym.

(Garpathian Mountains -- Geology, Stratigraphic)

207-21-58-4-13/29

AUTHORS:

Vul'chin, Ye.I. and Kul'chitskiy, Ya.O.

TITLE:

New Findings of Volcanic Tuffs in the Cretaceous and Tertiary Sediments of the East Carpathians (Novyye nakhodki tufov v melovykh i tretichnykh otlozheniyakh Vostochnykh Karpat)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 4, pp 411-413 (USSR)

ABSTRACT:

During previous years, thin intercalated beds of volcanic tuffs were discovered in flysh and molasses sediments of the East Carpathians, which may prove to be marker layers. Such layers have been found among the Upper Cretaceous sediments in the Magura zone, in the Eccene variegated flysh of the inner Carpathians and Transcarpathian inner depression, and in the Lower Tortonian sediments of the Forecarpathian marginal depression. The author cites the results of the chemical analysis of volcanic tuffs performed by Analyst Yu.V. Shevchenko, their characteristics given by

Card 1/2

O.N. Zavaritskiy, and lists representatives of the fossil

SOV-21-58-4-13/29

New Findings of Volcanic Tuffs in the Cretaceous and Tertiary Sediments of the East Carpathians

> fauna identified by L.S. Pishvanova in argillites. There is 1 table and 10 references, 5 of which are Soviet, 1 Rumanian, 2 Polish, 1 German and 1 Hungarian.

ASSOCIATION:

Ukrainskoye otdeleniye Vsesoyuznogo nauchno-issledovatel skogo geologorazvedochnogo instituta nefti (Ukrainian Department of the All-Union Scientific Research and

Geological-Prospecting Petroleum Institute)

PRESENTED:

By Member of the AS UkrSSR, V.G. Bondarchuk

SUBMITTED:

July 8, 1957

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NOTE:

Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Volcanic dust--USSR 2. Geological time--Determination 3. Geology⊊-USSR

Card 2/2

CIA-RDP86-00513R000927410003-5" **APPROVED FOR RELEASE: 08/23/2000**

Division of the eastern Carpathians into tectonic sections.

Geol. sbor. [Ivov] no.5/6:64-74 '58. (MIRA 12:10)

1. Ukrainskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo geologo-razvedochnogo neftyanogo instituta, L'vov.

(Carpathian Mountains--Folds (Geology))

KUL! CHITSKIY, Ya.O.; KADANER, Ye.I.

CONTRACTOR OF THE PROPERTY OF

Stratigraphy of Cretaceous and Paleogene deposits in the seutheastern part of the Maramures-Pennine facies zone. Trudy VNIGNI no.12: 45-60 '58. (MIRA 12:3) (Carpathian Mountains-Geology, Stratigraphic)

KUL'CHITSKIY, Ya. 0., Candidate of Geolog-Mineralog Sci (diss) -- "Cretaceous and Paleogenic flush of the southeastern part of the Eastern Carpathians". L'vov, 1959. 16 pp (Min Higher Educ Ukr SSR, L'vov State U im Ivan Franko), 150 copies (KL, No 21, 1959, 113)

of the constitution of the

VUL'CHIE, Ye.I.; KUL'CHITSKIY, Ya.O.

New finds and basic characteristics of pyroclastic formations in Cretaceous and Tertiary sediments of the eastern Carpathians. Trudy UkrNIGRI no.1:97-107 '59. (MIRA 12:12) (Carpathian Mountains--Volcanic ash, tuff, etc.)

VYALOV, O.S. (SSSR); GLUSHKO, V.V. (SSSR); KUL'CHITSKIY, Ya.O. (SSSR); SLAVIN, V.I. (SSSR)

Stratigraphy of the Eastern Soviet Carpathians. Mat.Karp.-Balk. assots. no.3:5-26 '60. (MIRA 14:12)

(Carpathian Mountains—Geology, Stratigraphic)

。 "一句,我是我们的一种,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

KUL'CHITSKIY, Ya.O. [Kul'chyta'kyi, IA.O.]; MAKSIMOV, A.V. [MAKSYMOV, O.V.]

Stratigraphy of the Cretaceous deposits of the Chornohora Ridge in the Carpatho-Ukraine. Dop. AN URSR no.8:1066-1068 '61. (MIRA 14:9)

l. Ukrainskiy nauch-issledovatel'skiy geologorazvedochnyy institut. Predstavleno akademikom AN USSR V.B. Porfir'yevym [Porfir"iev, V.B.]

(Cherno Gory Mountains—Geology, Stratigraphic)

KUL'CHITSKIY, Ya.O.[Kul'chyts'kyi, IA.O.]; MAKSIMOV, O.V. [Maksymov, O.V.]; KHIOPONIN, K.L.

。 1917年11月1日 1917年 1917

Problem of the Lower Oligocene as revealed by the Eastern Carpathians. Geol.zhur. 22 no.1:59-65 '62. (MIRA 15:2)

1. Ukrainskiy nauchno-iiledovateliskiy gornorudnyy institut, Livov. (Carpathian Mountains--Palenotology, Stratigraphic)

VYALOV, O.S., akademik; DABAGYAN, N.V.; KUL'CHITSKIY, Ya.O.

Recent data on the age of the Shipot and Dusino series in the Eastern Carpathians. Dokl. AN SSSR 142 no.4:896-899 F 162. (MIRA 15:2)

1. Institut geologii poleznykh iskopayemykh AN USSR i Ukrainskiy nauchno-issledovatel'skiy geologorazvedodanyy institut. 2. AN USSR (for Vyalov).

(Chernogora Range region—Geology, Stratigraphic)

(Svalyava Region—Geology, Stratigraphic)

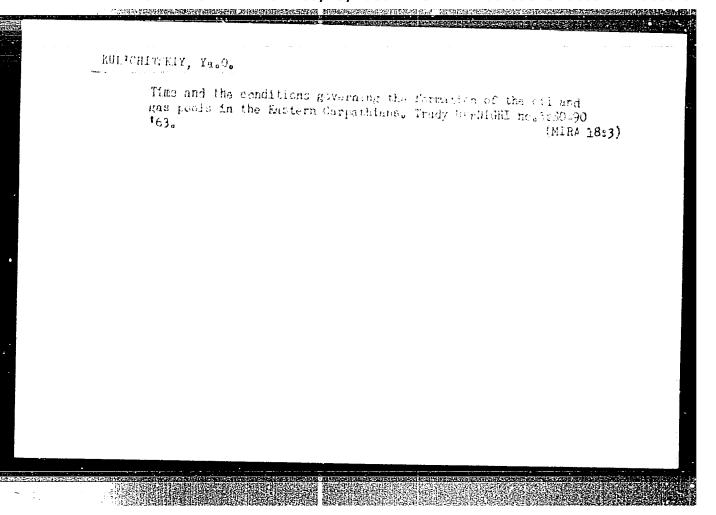
APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927410003-5"

KUL'CHITSKIY, Y4.0.; MAKSIMOV, A.V.

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Stratigraphic pattern of the Cretaceous of the Ukrainian Carpathians. Dokl. AN SSSR 146 no.1:175-178 S '62. (MIRA 15:9)

1. Ukrainskiy nauchno-issledovatel skiy geologorazvedochnyy institut. Predstavleno akademikom A.L. Yanshinym. (Transcarpathia—Geology, Stratigraphic)



VYALOV, O.S., akademik; DANYSH, V.V.; KOTSYUBINSKIY, S.P. [Kotsiubyns'kyi, S.P.]; KUL'CHITSKIY, Ya.O. [Kul'chyts'kyi, IA.O.]; LOZINYAK, P.Yu. [Lozyniak, P.IU.]

Cretaceous deposits of the western part of the eastern Carpathians. Dop. AN URSR no.8:1081-1084 '63. (MIRA 16:10)

1. Institut geologii goryuchikh iskopayemykh AN UkrSSR, Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut i Nauchno-prirodovedcheskiy muzey AN UkrSSR. 2. AN UkrSSR (for Vyalov). (Carpathian Mountains—Geology, Stratigraphic)

KUL'CHITSKIY, Ya.O. [Kul'chyts'kyi, IA.O.]; TEMNYUK, F.P.

Paleogene sediments of the Krosnen and Kuklyan zones in the Uzh and Latoritsa interfluve. Dop. AN URSR no.5:628-631 '64.

(MIRA 17:6)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut. Predstavleno akademikom AN UkrSSR V.B.Porfir'yevym [Porfyr'iev, V.B.].

DABAGYAN, N.V., [Dabahian, N.V.]; KUL'CHITSKIY, Ya.O. [Kul'chyts'kyi, IA.O.]; LOZYNYAK, P.Yu. (Lozyniak, P.IU.)

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Cretaceous sediments in the Krosno zone of the Ukrainian Carpathians in the Gorgan region, Dop. AN URSE no.1:87-90 165. (MIRA 18:2)

1. Ukrainskiy nauchno-issledovatel skiy geologorazvedochnyy institut. Predstavleno akademikom AN UkrSSR 0.5. Vyalovym.

15.8121

S/153/627005/004/005/006 E075/E436

AUTHORS:

Yakovlev, A.D., Kul'chnitskayte, Ye.I.

TITLE:

On curing of soft epoxy resin films with carboxyl-

containing methacrylic copolymer

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i

khimicheskaya tekhnologiya, v.5, no.4, 1962, 642-646

The curing of soft epoxy resins $\exists \Pi$ -6 (ED-6) and \exists -40 (E-40) with the aid of n-butylmethacrylate - methacrylic acid (7%) copolymer was investigated. The optimum curing was obtained for 50 to 70% content of the copolymer in the epoxy resin films. content of three dimensional polymer in the mixed films and their resistance to swelling increased with temperature of the curing The components in the mixed films are shown to form a common structural pair, in which epoxy groups react with the carboxylic groups, similarly to the reaction of epoxy groups with The latter reaction, however, ·low molecular weight acids. proceeds more readily and begins at 100°C, whereas the copolymer Thus the copolymer-containing films begins to react at 150°C. In comparison with low are of relatively low reactivity. Card 1/2

CIA-RDP86-00513R000927410003-5" APPROVED FOR RELEASE: 08/23/2000

On curing of soft epoxy resins ...

S/153/62/005/004/005/006 E075/E436

molecular weight acids, such as phthalic anhydride, the amount of the copolymer needed for curing is 7 to 8 times less in terms of molar quantities. It was found that the mixed films have sufficiently good anti-corrosive properties. There are 5 figures and 1 table.

ASSOCIATION: Kafedra tekhnologii lakov i krasok Leningradskiy

tekhnologicheskiy institut im. Lensoveta (Department of Varnish and Paint Technology

Leningrad Technological Institute imeni Lensoveta)

SUBMITTED:

February 13, 1961

Card .2/2

27204

S/103/61/022/004/011/014 B116/B212

16.9500 (1031,1068,1121,1132)

AUTHOR:

Kul'chiy, A. S. (Leningrad)

TITLE:

Determination of the optimum transfer function during white noise of a servo-system from its quality and response time

PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 4, 1961, 524-529

TEXT: Based on the results of K. I. Kurakin (Ref. 3: "Analiticheskiy metod sinteza lineynykh sistem avtomaticheskogo upravleniya pri nalichii pomekh i zadannoy dinamicheskoy tochnosti". (Analytic method of the synthesis of linear automatic control systems in the presence of interferences and with a given dynamic accuracy) Avtomatika i telemekhanika, v. 19, and with a given dynamic accuracy) Avtomatika i telemekhanika, v. 19, ono. 5, 1958) the connection between the coefficients C₁ of the systematic error and the response time T is determined by applying the least root mean square error. C₁ and T are considered to be given. Formulas are derived for the optimum transfer function during white noise. In one case, the first two error coefficients are taken into account, and the other, the first three error coefficients. For a stable system having the smallest phase for a closed and open state, the following inequalities have to be satisfied by

Card 1/6

S/103/61/022/004/011/014 B116/B212

Determination of ...

 $c_1 > 0$ $c_1 < T/2$ $c_2 < T^2/5 - Tc_1$ (5) C₁ and C₂: (6)

(7) (8)

The permissible values of C_2 as a function of C_1 may be found graphically (Fig. 1) with the aid of (5)-(8) if T is given. In order to determine whether the most favorable C2 value has been selected with respect to the root mean square error, it will be assumed that C2 and C3 will have only a small influence on the systematic error. These are determined such that the least root mean square error is guaranteed. The following expressions have been derived for the case limited to the first two error coefficients:

> $\overline{\eta_{\bullet}^2} = \frac{2}{T} \left(\frac{3C_1^2}{T^2} - \frac{3C_1}{T} + 1 \right),$ (14)

 $\Phi_{\text{out}}^{\bullet}(p) = \frac{\frac{T^2}{(0)} p^2 + \frac{1}{2} (T - 2C_1) p + 1}{\frac{T^3}{120} p^3 + \frac{T^4}{10} p^3 + \frac{T}{2} p + 1}.$ (15)

Card 2/6

CIA-RDP86-00513R000927410003-5" APPROVED FOR RELEASE: 08/23/2000

A CONTROL OF THE CONT		21804	
Determination of	S/103/61/022 B116/B212	S/103/61/022/004/011/014 B116/B212	
$W_{\text{out}}^{*}(p) = \frac{1}{C_{1}p} \frac{\frac{T^{2}}{60} p^{2} + \frac{1}{2} (T - 2C_{1}) p + 1}{\frac{T^{2}}{120C_{1}} p^{2} + \frac{T^{2}}{12C_{1}} p + 1}$	1 93 Jan 22 May 1922 (10)	(16), and	
for the case where the first three coef	ficients C_1 , C_2 , and	C ₃ of the .	
systematic error have to be taken into	account:		
$\eta_{so}^{1} = \frac{196}{89T} \left(\frac{3C_{1}^{2}}{T^{2}} - \frac{3C_{1}}{T} + 1 \right),$	÷ . (19)	(19)	
$\Phi_{0017}^{so}(p) = \frac{\frac{T^3}{280}(T - 2C_1)p^3 + \frac{T^3}{42}p^3 + \frac{1}{2}(T - 2C_1)p^3 + \frac{1}{2}($	$\frac{(C_1) p + 1}{p + 1} (20)$	(20)	
$W_{\text{OHT}}^{\bullet \bullet}(p) = \frac{1}{C_1 p} \frac{6TC_1 - 12C_1^*}{T^2} \frac{\left[\frac{1}{12}\right]}{\left[\frac{1}{12}\right]}$	$\frac{T^{2}}{60}p^{2} + \frac{T^{2}}{21(T - 2C_{1})}p + 1$ $\frac{T^{2}}{60}p^{2} + \left(\frac{T^{2}}{10} + \frac{6C_{1}}{70}\right)p + 1$	· .	
$\times \frac{1 + \left\{\frac{1}{2} p (T - 2C_1) \left[\frac{T^2}{140} p^3 + \frac{1}{140} \frac{T^2}{140} p^4 + \frac{T^2}{12C_1} p \left[\frac{T^2}{140} p^3 + \frac{1}{140} \frac{T^2}{140} p^4 + \frac{1}{140} \frac{T^2}{140} \frac{T^2}{140} p^4 + \frac{1}{140} \frac{T^2}{140} T$	$\frac{T^{2}}{21(T-2C_{1})} \frac{T^{2}}{p+1} \Big]^{-1}$ $\frac{T}{10} + \frac{6C_{1}}{70} p+1 \Big]^{-1}$	(22)	

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Determination of ...

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where η_{*}^{2} denotes the relative root mean square error; Φ_{CMT}^{*} (p) the optimum transfer function of the servo-system in a closed state, and W_{CMT}^{*} (p) that of the servo-system in an open state. The diagram shown in Fig. 2 has been constructed by using (13) and (14). The full lines represent $C_{2} = f(C_{1})$ curves and the dashed ones the $\eta_{*}^{2} = f(C_{1})$ curves at certain values of T given in seconds. It is pointed out that the formulas obtained are well suited to calculate control systems. There are 4 figures and 4 Soviet-bloc references.

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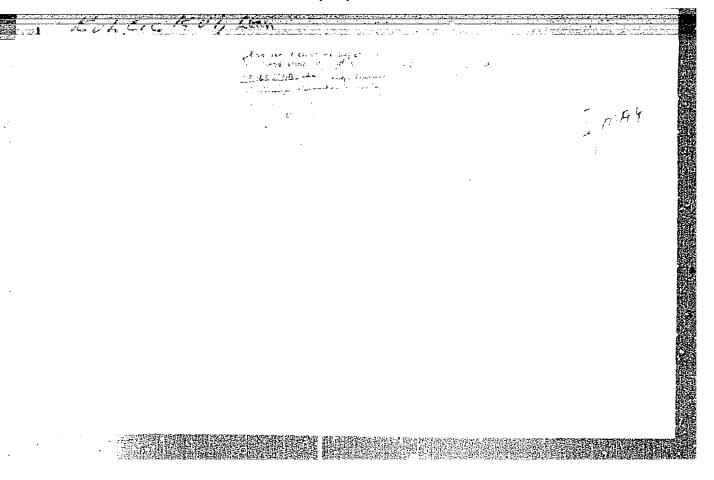
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(GANGLIA, AUTONOMIC, surg.

*celiac ganglionectomy in biliary dyskinesia, transbdom.
approach)

(BILE DUCT, COMMON, dis.

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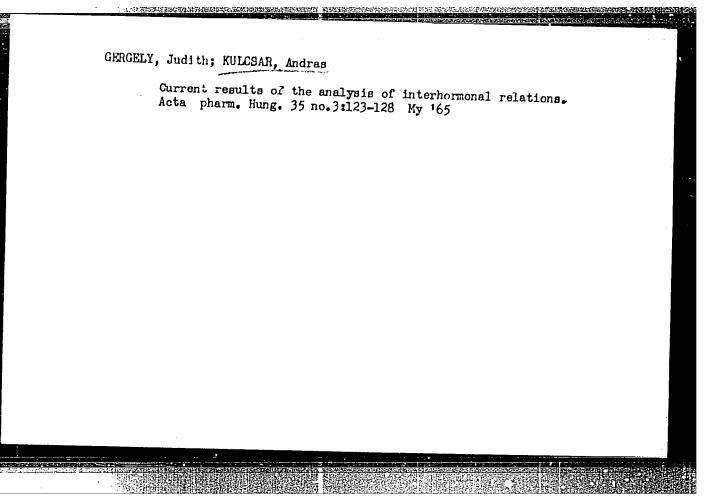
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